# A Level Computer Science

## Exam Style Questions

### *Unit 1.3.3*

### *Networks*

*Part 1: Network Structure*

| Name | | Date | |
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| **/ 15** | | |

## Question 1

An architect firm specialises in designing skyscrapers.

The computers in the architect firm's office are connected to a LAN which is connected to the Internet.

The LAN is set up in a client-server network.

Give one advantage and one disadvantage to the architects' firm of a client-server set up rather than a peer to peer setup.

Advantage

|  |
|---|

Disadvantage

|  |
|---|

[2]

## Question 2

A company produces digital photo frames (i.e. photo frames that display digital photographs). Several of these photo frames can be placed around a house and connected in a peer to peer network.

Describe what is meant by the term 'peer to peer network'.

|  |
|---|

[2]

## Question 3

The internet can be considered an example of a WAN.
Describe what is meant by the term 'WAN'.

|  |
|---|

[2]

## Question 4

Zuhair wants to create a Local Area Network (LAN) for himself and his family, in his home. Describe what is meant by a LAN.

[2]

## Question 5

TCP/IP uses packet switching. Explain what is meant by packet switching.

[4]

## Question 6

InterMovie is a service that allows users to stream movies over the Internet.

When users have played a movie it remains stored in a cache on the user's computer. This means that someone wanting to access the same film in future can stream it from other users rather than directly from the company's servers.

  i.  State what this network model is called.

[1]

  ii.  Explain why the company might have opted for this model.

[2]